IOS and DMS subsystem requirements changes based on RTM VERSION012696

CCR 96-0106 to correct problems identified in NASA's Requirement Spec (DID 304) Rejection

Changes since original submission:

- 1) added word "fault" to S-DMS-20820
- 2) added mapping between S-DMS-20835 and IMS-1620#B
 3) deleted links between S-IOS-00516 and IMS-1620#A, IMS-1660#A
- 4) changed S-IOS-00517 from Rel B to Rel A
- 5) added word "status" to S-DMS-31061

Table 1 Peterange table for review of LA changes and LA to DbD link ab

			e for review of L4 changes and L4 to R			1		T	T	T 1
L4 ID	RT	Rel	L4 Text	Clarification	Req Type	RbR ID	RT	RbR Text	RbR Type	Interpretation
	M						M			
	Key						key		ļ	
S-DMS-		<u>B</u>	The LIMGR CI shall be available		<u>functional</u>	<u>IMS-0010#B</u>	4917	The IMS shall be capable of	functional	
<u>00565</u>			24 hours a day, 7 days a week					providing 24 hour per day, 7 day		
			within the constraints of the RMA					per week access to the ECS		
0.71.50		_	requirements.			77.50 0010117	1015	services.		
S-DMS-		<u>B</u>	The DDICT CI shall be available 24		functional	<u>IMS-0010#B</u>	4917	The IMS shall be capable of	functional	
<u>20695</u>			hours a day, 7 days a week within					providing 24 hour per day, 7 day		
			the constraints of the RMA					per week access to the ECS		
G D) (G		ъ	requirements.			TI CO COLOUD	4015	services.		-
<u>S-DMS-</u>		<u>B</u>	The DIMGR CI shall be available		<u>functional</u>	<u>IMS-0010#B</u>	4917	The IMS shall be capable of	functional	
<u>10345</u>			24 hours a day, 7 days a week					providing 24 hour per day, 7 day		
			within the constraints of the RMA					per week access to the ECS		
G DMG			requirements.		C .: 1	T 40 0010#4		services.	l C 1	
<u>S-DMS-</u>		<u>A</u>	The GTWAY CI shall be available		<u>functional</u>	<u>IMS-0010#A</u>	<u>new</u>	The IMS shall be capable of	functional	
<u>30100</u>			24 hours a day, 7 days a week					providing 24 hour per day, 7 day		
			within the constraints of the RMA					per week access to the ECS		
C DMC			requirements.			IMC 0010#D	4017	Services.	G.,	-
<u>S-DMS-</u>						<u>IMS-0010#B</u>	4917	The IMS shall be capable of	functional	
<u>30100</u>								providing 24 hour per day, 7 day per week access to the ECS		
								services.		
S-IOS-		Λ	The ADSRV CI shall be available		functional	IMS-0010#A	novy		functional	+
00480		<u>A</u>	24 hours a day, 7 days a week		<u>functional</u>	11V13-0010#A	new	The IMS shall be capable of providing 24 hour per day, 7 day	Tuncuonai	
00400			within the constraints of the RMA					per week access to the ECS		
			requirements.					services.		
S-IOS-			requirements.			IMS-0010#B		The IMS shall be capable of	functional	
00480						11v13-0010#B	4917	providing 24 hour per day, 7 day	Tunctional	
00400							4/1/	per week access to the ECS		
								services.		
					<u> </u>			BCI VICCS.	<u> </u>	Į.

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S-DMS-		<u>CB</u>	The DDICT CI shall provide the	functional	IMS-0510#B	5130	The IMS shall provide tools for	interface	
20920	3087	_	capability to relate				research planning and data search,		
			Phenomenological Search Criteria				to include at a minimum:		
			to Search Criteria containing values				a. Data acquisition schedules and		
			for searchable attributes supported				plans		
			in the Data Server Schema.				b. The capability to map specified		
							geophysical parameters to the		
							appropriate instrument and/or		
							Standard Product		
							c. Descriptive information on		
							instruments and geophysical		
							parameters available in Standard		
							Products		
							d. Climatology information		
							f. Geographic reference aids		
							g. Spacecraft location projections.		
S-DMS-		<u>B</u>	The DDICT CI shall store a	functional	IMS-0510#B	5130	The IMS shall provide tools for	interface	
<u>20006</u>			mapping of geophysical parameters				research planning and data search,		
			to the appropriate instruments and				to include at a minimum:		
			collections.				a. Data acquisition schedules and		
							plans		
							b. The capability to map specified		
							geophysical parameters to the		
							appropriate instrument and/or		
							Standard Product		
							c. Descriptive information on		
							instruments and geophysical		
							parameters available in Standard		
							Products		
							d. Climatology information		
							f. Geographic reference aids		
							g. Spacecraft location projections.		

S-DMS- 20007	<u>B</u>	The DDICT CI shall provide the capability to search a mapping of geophysical parameters to the appropriate instruments and collections.	functional	IMS-0510#B	5130	The IMS shall provide tools for research planning and data search, to include at a minimum: a. Data acquisition schedules and plans b. The capability to map specified geophysical parameters to the appropriate instrument and/or Standard Product c. Descriptive information on instruments and geophysical parameters available in Standard Products d. Climatology information f. Geographic reference aids	interface	
S-DMS- 20008	<u>B</u>	The DDICT CI shall store descriptive information about keywords associated with a collection, including at a minimum instruments and geophysical parameters.	functional	IMS-0510#B	5130	g. Spacecraft location projections. The IMS shall provide tools for research planning and data search, to include at a minimum: a. Data acquisition schedules and plans b. The capability to map specified geophysical parameters to the appropriate instrument and/or Standard Product c. Descriptive information on instruments and geophysical parameters available in Standard Products d. Climatology information f. Geographic reference aids g. Spacecraft location projections.	interface	

S-DMS- 20009		<u>B</u>	The DDICT CI shall provide the capability to search descriptive information about keywords associated with a collection, including at a minimum instruments and geophysical parameters.	functional	IMS-0510#B		The IMS shall provide tools for research planning and data search, to include at a minimum: a. Data acquisition schedules and plans b. The capability to map specified geophysical parameters to the appropriate instrument and/or Standard Product c. Descriptive information on instruments and geophysical parameters available in Standard Products d. Climatology information f. Geographic reference aids g. Spacecraft location projections.	interface	
S-DMS- 00010	8334	В	The LIMGR CI shall provide capabilities to search and obtain data by science discipline.	functional	IMS-0550#B		The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional	B: LIM/DIM capability
S-IOS- 00010	2795	A	The ADSRV CI shall provide the capability for viewing Advertisements.	functional	IMS-0550#B	5142	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional	
S-IOS- 00010					IMS-0550#A	5512	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional	

S-IOS- 00070	2800	A	The ADSRV CI shall provide capability for displaying Advertisements for data and services provided by non-ECS systems with which ECS is interoperable.	functional	IMS-0550#A	5512	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional	A: LIM capability
S-IOS- 00070					IMS-0550#B	5142	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats		
S-IOS- 00080	2801	A	The ADSRV CI shall provide a capability to access Advertisements for ECS and non-ECS data and services.	functional	IMS-0550#B	5142	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional	B: LIM/DIM capability
S-IOS- 00080					IMS-0550#A	5512	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional	
S-DMS- 20010		<u>B</u>	The DDICT CI shall store a conceptual schema of the data held in the SDSRV, LIMGR, and DIMGR to hide the underlying database structure from the end user.	functional	IMS-0550#B	5142	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional	B: LIM/DIM capability
S-DMS- 10765		<u>B</u>	The DIMGR CI shall accept searches in the Earth Science Query Language.	<u>functional</u>	IMS-0630#B	5184	The IMS shall provide the capability to select metadata for retrieval by: a. Boolean operators b. Relational operators c. Attribute values d. Search strings e. Combinations thereof	functional	

S-DMS- 10765		D	The Earth Science Query Language	functional	IMS-0650#B	5188	The IMS shall query non-geographic metadata by any of the following criteria at a minimum: a. Exact word match b. Phrase match c. Character set (string) d. Wildcard construct (prefix, embedded, suffix) e. Character range f. Logical and Boolean operators g. Min/max range search h. Any combination of the above The IMS shall provide the capability	functional	
10770	-	<u>B</u>	shall support the specification of search conditions using search expressions in combination with boolean and relational operators.	<u>functional</u>	IMS-0630#B	5184	to select metadata for retrieval by: a. Boolean operators b. Relational operators c. Attribute values d. Search strings e. Combinations thereof	Tunctional	
<u>S-DMS-</u> <u>10771</u>		<u>B</u>	The Earth Science Query Language shall support the specification of search expressions using the attribute names and exact word matches for string attributes associated with non-geographic metadata.	functional	IMS-0650#B	5188	The IMS shall query non- geographic metadata by any of the following criteria at a minimum: a. Exact word match b. Phrase match c. Character set (string) d. Wildcard construct (prefix, embedded, suffix) e. Character range f. Logical and Boolean operators g. Min/max range search h. Any combination of the above	functional	
<u>S-DMS-</u> 10771					IMS-0630#B	5184	The IMS shall provide the capability to select metadata for retrieval by: a. Boolean operators b. Relational operators c. Attribute values d. Search strings e. Combinations thereof	functional	

<u>S-DMS-</u> 10772	<u>B</u>	The Earth Science Query Language shall support the specification of search expressions using the attribute names and phrase matches for string attributes associated with non-geographic metadata.	functional	IMS-0650#B	5188	The IMS shall query non- geographic metadata by any of the following criteria at a minimum: a. Exact word match b. Phrase match c. Character set (string) d. Wildcard construct (prefix, embedded, suffix) e. Character range f. Logical and Boolean operators g. Min/max range search h. Any combination of the above	functional	
S-DMS- 10773	<u>B</u>	The Earth Science Query Language shall support the specification of search expressions using the attribute names and character sets for string attributes associated with non-geographic metadata.	functional	IMS-0650#B	5188	The IMS shall query non-geographic metadata by any of the following criteria at a minimum: a. Exact word match b. Phrase match c. Character set (string) d. Wildcard construct (prefix, embedded, suffix) e. Character range f. Logical and Boolean operators g. Min/max range search h. Any combination of the above	functional	
S-DMS- 10774	<u>B</u>	The Earth Science Query Language shall support the specification of search expressions using the attribute names and wildcard constructs for string attributes associated with non-geographic metadata.	functional	IMS-0650#B	5188	The IMS shall query non- geographic metadata by any of the following criteria at a minimum: a. Exact word match b. Phrase match c. Character set (string) d. Wildcard construct (prefix, embedded, suffix) e. Character range f. Logical and Boolean operators g. Min/max range search h. Any combination of the above	functional	

<u>S-DMS-</u> 10775		<u>B</u>	The Earth Science Query Language shall support the specification of search expressions using the attribute names and character ranges for string attributes associated with non-geographic metadata.	functional	IMS-0650#B	5188	The IMS shall query non- geographic metadata by any of the following criteria at a minimum: a. Exact word match b. Phrase match c. Character set (string) d. Wildcard construct (prefix, embedded, suffix) e. Character range f. Logical and Boolean operators g. Min/max range search	functional	
<u>S-DMS-</u> 10776		<u>B</u>	The Earth Science Query Language shall support the specification of search expressions using the attribute names and minimum and maximum range for numeric and date/time attributes associated with non-geographic metadata.	functional	IMS-0650#B	5188	h. Any combination of the above The IMS shall query non- geographic metadata by any of the following criteria at a minimum: a. Exact word match b. Phrase match c. Character set (string) d. Wildcard construct (prefix, embedded, suffix) e. Character range f. Logical and Boolean operators g. Min/max range search h. Any combination of the above	functional	
S-DMS- 00020	8335	В	The LIMGR CI shall accept Search Requests in the format defined in Appendix K of the current version of 304-CD-005. in a format compatible with the Earth Science Query Language.	functional	IMS-0630#B	5184	The IMS shall provide the capability to select metadata for retrieval by: a. Boolean operators b. Relational operators c. Attribute values d. Search strings e. Combinations thereof	functional	
S-DMS- 00020					<u>IMS-0650#B</u>	5188	The IMS shall query non- geographic metadata by any of the following criteria at a minimum: a. Exact word match b. Phrase match c. Character set (string) d. Wildcard construct (prefix, embedded, suffix) e. Character range f. Logical and Boolean operators g. Min/max range search h. Any combination of the above	functional	

S-DMS- 20130	8517	В	The DDICT CI shall have the capability to accept from the Workbench CI data dictionary search requests consisting of any combination of the following: Earth Science Data Types, Core Metadata attribute, and Product Specific Metadata in a format compatible with the Earth Science Query Language.	functional	IMS-0630#B	5184	The IMS shall provide the capability to select metadata for retrieval by: a. Boolean operators b. Relational operators c. Attribute values d. Search strings e. Combinations thereof		
S-DMS- 20130					IMS-0650#B	5188	following criteria at a minimum: a. Exact word match b. Phrase match c. Character set (string) d. Wildcard construct (prefix, embedded, suffix) e. Character range f. Logical and Boolean operators g. Min/max range search h. Any combination of the above	functional	
S-IOS- 00690	9128	В	The ADSRV CI shall accept Search Requests as specified in Appendix A of the current version of 304-CD-002 for Release A and as specified in Appendix K of the current version of 304-CD-005 in a format compatible with the Earth Science Query Language.	functional	IMS-0630#B	5184	The IMS shall provide the capability to select metadata for retrieval by: a. Boolean operators b. Relational operators c. Attribute values d. Search strings e. Combinations thereof	interface	
S-IOS- 00690					IMS-0650#B	5188	The IMS shall query non- geographic metadata by any of the following criteria at a minimum: a. Exact word match b. Phrase match c. Character set (string) d. Wildcard construct (prefix, embedded, suffix) e. Character range f. Logical and Boolean operators g. Min/max range search h. Any combination of the above	interface	

30760		В	Partial Results shall consist of Search Results accumulated to the time of the request for partial results, or Search Results accumulated since the last request for partial results The GTWAY CI shall provide partial results upon request which consists of the results from the start of the request or since the last request for results.	functional			
S-DMS- 10760	8485	В	Partial Results shall consist of Search Results accumulated to the time of the request for partial results, or Search Results accumulated since the last Request for partial results The DIMGR CI shall provide partial results upon request which consists of the results from the start of the request or since the last request for results.	functional			
S-DMS- 00740	8485	В	Partial Results shall consist of Search Results accumulated to the time of the request for partial results, or Search Results accumulated since the last Request for partial results The LIMGR CI shall provide partial results upon request which consists of the results from the start of the request or since the last request for results.	functional			
S-DMS- 00710	8387	В	The LIMGR CI shall collect report Accountability Management Data (requests such as searches, browse requests, orders) and provide it to the MSS.	interface			
S-DMS- 10560	8468	В	The DIMGR CI shall collect report Accountability Management Data (requests such as searches, browse requests, orders) and provide it to the MSS.	interface			

C DMC		D	The DDICT CL. 1. 11 11	1., c	1	1	1	1	1
S-DMS- 20840	8569	В	The DDICT CI shall collect report Accountability Management Data	interface					
20040	0309		(requests such as searches, browse						
			requests, orders) and provide it to						
1			the MSS.						
S-DMS-		<u>B</u>	The GTWAY CI shall report	functional	IMS-1620#B		The IMS element shall collect the	functional	
<u>31050</u>			Accountability Management Data			5375	management data used to support		
			(requests such as searches, browse				the following system management		
			requests, orders) to the MSS.				functions:		
							a. Fault Management		
							b. Configuration Management		
							c. Accounting Management d. Accountability Management		
							e. Performance Management		
							f. Security Management		
							g. Scheduling Management		
S-DMS-		В	The LIMGR CI shall send detected	functional	IMS-1620#B		The IMS element shall collect the	functional	
00520		_	hardware and software fault			5375	management data used to support		
			information to MSS.				the following system management		
							functions:		
							a. Fault Management		
							b. Configuration Management		
							c. Accounting Management		
							d. Accountability Management e. Performance Management		
							f. Security Management		
							g. Scheduling Management		
S-DMS-					IMS-1760#B		The IMS shall send detected	functional	
00520						5389	hardware faults to the SMC, to		
							include at a minimum:		
							a. IMS processors		
							b. IMS network interfaces		
							c. Storage devices		
S-DMS-		В	The DIMGR CI shall send detected	functional	IMS-1760#B		The IMS shall send detected	functional	
10530	8463		hardware and software fault			5389	hardware faults to the SMC, to		
			information to MSS collect the				include at a minimum:		
			management data used to support fault recovery management.				a. IMS processors		
			launt recovery management.				b. IMS network interfaces		
							c. Storage devices		
S-DMS-		В	The DDICT CI shall collect Fault	interface	IMS-1760#B	†	The IMS shall send detected	functional	
20820	8567	~	Management Data and provide it to	Interface		5389	hardware faults to the SMC, to		
			the MSS provide detected hardware				include at a		
			and software fault information to				minimum:		
			MSS.				a. IMS processors		
							b. IMS network interfaces		
							c. Storage devices		

<u>S-DMS-</u> <u>31051</u>		<u>B</u>	The GTWAY CI shall send detected hardware and software fault information to MSS.	functional	IMS-1620#B	5375	The IMS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management	functional	
<u>S-DMS-</u> 31051					IMS-1760#B	5389	The IMS shall send detected hardware faults to the SMC, to include at a minimum: a. IMS processors b. IMS network interfaces c. Storage devices	functional	
S-DMS- 00690	8383	В	The LIMGR CI shall collect the management data used to support configuration management .provide configuration management data such as software versions to MSS through the use of managed process framework.	functional					
S-DMS- 10540	8464	В	The DIMGR CI shall collect the management data used to support configuration management shall provide configuration management data such as software versions to MSS through managed process framework.	functional					
S-DMS- 20830	8568	В	The DDICT CI shall collect Configuration Management Data and provide it to the MSS provide configuration management data such as software versions to the MSS using the managed process framework.	interface					

<u>S-DMS-</u> <u>31052</u>		<u>B</u>	The GTWAY CI shall provide configuration management data such as software versions to MSS using managed process framework.	functional	IMS-1620#B	5375	The IMS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management	functional	
S-DMS- 00700		В	The LIMGR CI shall collect Accounting Management Data-used to support accounting support the MSS in collecting Accounting Management Data by supplying resource utilization data.	functional	IMS-1660#B	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	
S-DMS- 10550	8465	В	The DIMGR CI shall collect Accounting Management Data used to support accounting support the MSS in collecting Accounting Management Data by supplying resource utilization data.	functional	IMS-1660#B	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	
S-DMS- 20835		B	The DDICT CI shall support the MSS in collecting Accounting Management Data by supplying resource utilization data.	functional	IMS-1660#B	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	

					IMS-1620#B	5375	The IMS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management	functional	
S-DMS- 31056		<u>B</u>	The GTWAY CI shall support the MSS in collecting Accounting Management Data by supplying resource utilization data.	functional	IMS-1620#B	5375	The IMS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management	functional	
<u>S-DMS-</u> <u>31056</u>					IMS-1660#B	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	
S-DMS- 00720	8388	В	The LIMGR CI shall collect Performance Management Data using the MSS managed object components and provide it to the MSS at configurable intervals and on demand.	interface					
S-DMS- 10570	8469	В	The DIMGR CI shall collect Performance Management Data using the MSS managed object components and provide it to the MSS at configurable intervals and on demand.	interface					

S-DMS- 20850	8570	В	The DDICT CI shall collect Performance Management Data using the MSS managed object components and provide it to the MSS at configurable intervals and on demand.	interface	TMS 1 COOKE				
S-DMS- 31053		<u>B</u>	The GTWAY CI shall collect Performance Management Data using the MSS managed object components and provide it to the MSS at configurable intervals and on demand.	interface	IMS-1620#B	5375	The IMS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management	functional	
S-DMS- 00530	8368	В	The LIMGR CI shall collect the management data used to support security management. collect Security Management Data (such as rejected access to a service) and provide it to the MSS.	functional					
S-DMS- 10580	8470	В	The DIMGR CI shall collect Security Management Data (such as rejected access to a service) and provide it to the MSS.	interface					

S-DMS-		В	The DDICT CI shall collect the	functional	IMS-0320#B		Standard Product related metadata	functional	
20660	8552	Б	management data used to support	Tunctional	11VIS-0320#B	5063	shall contain, at a minimum:	Tunctional	
20000	0332		security management. collect			3003	a. Keywords and glossary from		
			Security Management Data (such as				investigators		
			rejected access to a service) and				b. Keywords, synonyms, and		
			provide it to the MSS.				glossary for cross-product and		
							cross-directory referencing		
							c. Identifiers for locating products in		
							the DADS archive by granule		
							d. Documentation on algorithms,		
							including version history, authors,		
							written description of product,		
							equations, and references		
							e. Documentation on instrument(s)		
							and spacecraft(s) including history		
							of housekeeping and ancillary		
							parameters, discipline		
							characterization,		
							calibration parameters, key		
							individuals, and references		
							f. Identifiers, algorithms, written		
							descriptions, equations, authors, and		
							references associated with static		
							browse products and subsetted,		
							subsampled, and summary data		
							products		
							g. Published papers, research		
							results, significant results, and		
							references by author and date		
							h. Key organizations and personnel		
							for all product-related DAACs,		
							ADCs, and ODCs		
							i. Granule-specific information as		
							listed in Tables C-10 and C-11 in		
							Appendix C		
C DMC		D	The CTWAY CLEIL - 11114	intanfa -	IMC 1620#P			franction -1	
S-DMS-		<u>B</u>	The GTWAY CI shall collect	<u>interface</u>	<u>IMS-1620#B</u>	5075	The IMS element shall collect the	functional	
<u>31054</u>			Security Management Data (such as			5375	management data used to support		
			rejected access to a service) and				the following system management		
			provide it to the MSS.				functions:		
							a. Fault Management		
							b. Configuration Management		
							c. Accounting Management		
							d. Accountability Management		
							e. Performance Management		
							f. Security Management		
							g. Scheduling Management		
		l	<u>l</u>	L			g. Beneduling Management		

00730	8389	В	The LIMGR CI shall collect Scheduling Management Data and provide it to the MSS provide configuration information such as number of expected daily sessions, which will be used by MSS to compare plans to actuals (i.e. schedule management).	interface					
S-DMS- 10590	8471	В	The DIMGR CI shall collect Scheduling Management Data used to support scheduling management and provide it to the MSS provide configuration information such as number of expected daily sessions, which will be used by MSS to compare plans to actuals (i.e. schedule management).	interface					
S-DMS- 20860	8571	В	The DDICT CI shall collect Scheduling Management Data and provide it to the MSS provide configuration information such as number of expected daily sessions, which will be used by MSS to compare plans to actuals (i.e. schedule management).	interface					
<u>S-DMS-</u> 31057		<u>B</u>	The GTWAY CI shall provide configuration information such as number of expected daily sessions, which will be used by MSS to compare plans to actuals (i.e. schedule management).	interface	IMS-1620#B	5375	The IMS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management	functional	
S-IOS- 00490	9218	A	The ADSRV CI shall collect software Fault Management Data about its own operations and provide it to the MSS. The ADSRV CI shall send detected hardware and software fault information to MSS.	interface	IMS-1760#B	5389	The IMS shall send detected hardware faults to the SMC, to include at a minimum: a. IMS processors b. IMS network interfaces c. Storage devices	functional	

S-IOS- 00510	9219	A	The ADSRV CI shall collect report Accountability Management Data (such as searches, advertisement submissions, etc.) about its own operations and provide it to the MSS.	interface					
<u>S-IOS-</u> <u>00515</u>		<u>A</u>	The ADSRV CI shall collect Performance Management Data using the MSS managed object components and provide it to the MSS at configurable intervals and on demand.	interface	IMS-1620#B	5375	The IMS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management	functional	
<u>S-IOS-</u> <u>00515</u>					IMS-1620#A	5563	The IMS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management.		
S-IOS- 00516		<u>B</u>	The ADSRV CI shall support the MSS in collecting Accounting Management Data by supplying resource utilization data.	interface	IMS-1620#B	5375	The IMS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management	functional	
<u>S-IOS-</u> 00516					IMS-1660#B	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	

S-IOS- 00517	A	The ADSRV CI shall provide configuration information such as expected moderation approval time, which will be used by MSS to compare plans to actuals (i.e. schedule management).	inter				The IMS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management	functional	
<u>S-IOS-</u> <u>00517</u>					IMS-1620#A		The IMS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management.		
<u>S-IOS-</u> <u>00518</u>	A	The ADSRV CI shall provide configuration management data such as software versions to MSS using managed process framework.	func	ctional]		5375	The IMS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management	functional	
S-IOS- 00518]	IMS-1620#A	5563	The IMS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management.		

S-IOS- 00940	9028	В	The ADSRV CI shall provide its current mode to MSS on request.	functional interface	IMS-1620#B	5375	The IMS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management	functional	
S-IOS- 00940		В	The ADSRV CI shall provide a	functional	IMS-1640#B	5377	The IMS shall provide to the SMC, status to include at a minimum: a. Integration, testing, and simulation status b. Maintenance status c. Logistics status d. Training information	interface	
00950	9029	Б	capability for logistics and maintenance status to be provided to the SMC.	<u>interface</u>					
<u>S-DMS-</u> <u>31058</u>		<u>B</u>	The GTWAY CI shall provide integration, testing, and simulation status to the MSS.	interface	IMS-1640#B	5377	The IMS shall provide to the SMC, status to include at a minimum: a. Integration, testing, and simulation status b. Maintenance status c. Logistics status d. Training information	interface	
S-DMS- 31059		<u>B</u>	The GTWAY CI shall provide maintenance status to the MSS.	<u>interface</u>	IMS-1640#B	5377	The IMS shall provide to the SMC, status to include at a minimum: a. Integration, testing, and simulation status b. Maintenance status c. Logistics status d. Training information	interface	
S-DMS- 31062		<u>B</u>	The GTWAY CI shall provide logistics status to the SMC.	<u>interface</u>	<u>IMS-1640#B</u>	5377	The IMS shall provide to the SMC, status to include at a minimum: a. Integration, testing, and simulation status b. Maintenance status c. Logistics status d. Training information	interface	

<u>S-DMS-</u> <u>31061</u>		<u>B</u>	The GTWAY CI shall provide training information status to the SMC.	interface	IMS-1640#B	5377	The IMS shall provide to the SMC, status to include at a minimum: a. Integration, testing, and simulation status b. Maintenance status c. Logistics status d. Training information	interface	
S-DMS- 01010	8406	В	The LIMGR CI shall log to MSS all Service requests received initiated during a session.	functional					
<u>S-DMS-</u> <u>01015</u>		<u>B</u>	The LIMGR CI shall log the successful completion of each service request to MSS.	interface	IMS-1660#B	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	
S-DMS- 00912		<u>B</u>	The LIMGR CI shall log the startup of the LIMGR servers to MSS	interface	IMS-1640#B	5377	The IMS shall provide to the SMC, status to include at a minimum: a. Integration, testing, and simulation status b. Maintenance status c. Logistics status d. Training information	interface	
S-DMS- 00913		<u>B</u>	The LIMGR CI shall log the shutdown of the LIMGR servers to MSS.	functional	IMS-1640#B	5377	The IMS shall provide to the SMC, status to include at a minimum: a. Integration, testing, and simulation status b. Maintenance status c. Logistics status d. Training information	interface	
<u>S-DMS-</u> 01011		<u>B</u>	The LIMGR CI shall log to MSS when a service request is activated from the queue.	interface	IMS-1650#B	5380	MS operations data shall contain information on: a. System utilization at the IMS b. Outstanding data distribution requests c. Outstanding processing requests d. Outstanding data acquisition requests	functional	

<u>S-DMS-</u> 01011				IMS-1660#B	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	
<u>S-DMS-</u> <u>01012</u>	<u>B</u>	The LIMGR CI shall log to MSS when a service request has been successfully decomposed into its component requests.	interface	IMS-1650#B	5380	MS operations data shall contain information on: a. System utilization at the IMS b. Outstanding data distribution requests c. Outstanding processing requests d. Outstanding data acquisition requests	functional	
<u>S-DMS-</u> 01012				IMS-1660#B	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	
<u>S-DMS-</u> <u>01012</u>	<u>B</u>	The LIMGR CI shall log to MSS when an external connection (i.e. to GTWAY or SDSRV) has been established.	interface	IMS-1650#B	5380	MS operations data shall contain information on: a. System utilization at the IMS b. Outstanding data distribution requests c. Outstanding processing requests d. Outstanding data acquisition requests	functional	
S-DMS- 01012				IMS-1660#B	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	

<u>S-DMS-</u> 01013	<u>B</u>	The LIMGR CI shall log to MSS when the component service request has been submitted to the external entity (e.g. GTWAY, SDSRV).	interface	IMS-1650#B	5380	MS operations data shall contain information on: a. System utilization at the IMS b. Outstanding data distribution requests c. Outstanding processing requests d. Outstanding data acquisition requests	functional	
<u>S-DMS-</u> <u>01013</u>				IMS-1660#B	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	
<u>S-DMS-</u> 01014	<u>B</u>	The LIMGR CI shall log to MSS when the request to the external entity (e.g. GTWAY, SDSRV) has been successfully returned.	interface	IMS-1650#B	5380	MS operations data shall contain information on: a. System utilization at the IMS b. Outstanding data distribution requests c. Outstanding processing requests d. Outstanding data acquisition requests	functional	
<u>S-DMS-</u> 01014				IMS-1660#B	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	
S-DMS- 01015	<u>B</u>	The LIMGR CI shall log to MSS when the results of the external requests have been integrated and status is about to be sent to the client program.	interface	IMS-1650#B	5380	MS operations data shall contain information on: a. System utilization at the IMS b. Outstanding data distribution requests c. Outstanding processing requests d. Outstanding data acquisition requests	functional	

S-DMS- 01015					IMS-1660#B	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	
S-DMS- 11010	8500	В	The DIMGR CI shall log to MSS all Service requests received initiated during a session.	functional					
S-DMS- 11011		<u>B</u>	The DIMGR CI shall log the successful completion of each service request to MSS.	interface	IMS-1660#B	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	
S-DMS- 10595		<u>B</u>	The DIMGR CI shall log the startup of the DIMGR servers to MSS	<u>interface</u>	IMS-1640#B	5377	The IMS shall provide to the SMC, status to include at a minimum: a. Integration, testing, and simulation status b. Maintenance status c. Logistics status d. Training information	interface	
S-DMS- 10596		<u>B</u>	The DIMGR CI shall log the shutdown of the DIMGR servers to MSS.	functional	IMS-1640#B	5377	The IMS shall provide to the SMC, status to include at a minimum: a. Integration, testing, and simulation status b. Maintenance status c. Logistics status d. Training information	interface	
<u>S-DMS-</u> <u>11012</u>		<u>B</u>	The DIMGR CI shall log to MSS when a service request is activated from the queue.	interface	IMS-1650#B	5380	MS operations data shall contain information on: a. System utilization at the IMS b. Outstanding data distribution requests c. Outstanding processing requests d. Outstanding data acquisition requests	functional	

<u>S-DMS-</u> 11012					5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories		
<u>S-DMS-</u> <u>11013</u>	<u>B</u>	The DIMGR CI shall log to MSS when a service request has been successfully decomposed into its component requests.	interface		5380	MS operations data shall contain information on: a. System utilization at the IMS b. Outstanding data distribution requests c. Outstanding processing requests d. Outstanding data acquisition requests	functional	
<u>S-DMS-</u> 11013				IMS-1660#B	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	
<u>S-DMS-</u> <u>11014</u>	<u>B</u>	The DIMGR CI shall log to MSS when an external connection (i.e. to LIMGR, GTWAY or SDSRV) has been established.	interface		5380	MS operations data shall contain information on: a. System utilization at the IMS b. Outstanding data distribution requests c. Outstanding processing requests d. Outstanding data acquisition requests	functional	
<u>S-DMS-</u> <u>11014</u>				<u>IMS-1660#B</u>	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	

<u>S-DMS-</u> 11015		<u>B</u>	The DIMGR CI shall log to MSS when the component service request has been submitted to the external entity (e.g. LIMGR, GTWAY, SDSRV).	interface	IMS-1650#B	5380	MS operations data shall contain information on: a. System utilization at the IMS b. Outstanding data distribution requests c. Outstanding processing requests d. Outstanding data acquisition requests	functional	
<u>S-DMS-</u> <u>11015</u>					IMS-1660#B	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	
<u>S-DMS-</u> <u>11016</u>		<u>B</u>	The DIMGR CI shall log to MSS when the request to the external entity (e.g. LIMGR, GTWAY, SDSRV) has been successfully returned.	interface	IMS-1650#B	5380	MS operations data shall contain information on: a. System utilization at the IMS b. Outstanding data distribution requests c. Outstanding processing requests d. Outstanding data acquisition requests	functional	
<u>S-DMS-</u> <u>11016</u>					IMS-1660#B	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	
<u>S-DMS-</u> <u>11017</u>		<u>B</u>	The DIMGR CI shall log to MSS when the results of the external requests have been integrated and status is about to be sent to the client program.	interface	IMS-1650#B	5380	IMS operations data shall contain information on: a. System utilization at the IMS b. Outstanding data distribution requests c. Outstanding processing requests d. Outstanding data acquisition requests	functional	
S-DMS- 31010	3167	A	The GTWAY CI shall log to MSS the initiation of all Service requests.	functional					

<u>S-DMS-</u> 31011	<u>B</u>	The GTWAY CI shall log the startup of the GTWAY servers to MSS		rface IMS-1640#	5377	The IMS shall provide to the SMC, status to include at a minimum: a. Integration, testing, and simulation status b. Maintenance status c. Logistics status d. Training information	interface	
<u>S-DMS-</u> <u>31012</u>	<u>B</u>	The GTWAY CI shall log the shutdown of the GTWAY servers to MSS.	<u>func</u>	ctional IMS-1640#	5377	The IMS shall provide to the SMC, status to include at a minimum: a. Integration, testing, and simulation status b. Maintenance status c. Logistics status d. Training information	interface	
S-DMS- 31013	<u>B</u>	The GTWAY CI shall log to MSS when a service request is activated from the queue.	inter	rface IMS-1650#	5380	MS operations data shall contain information on: a. System utilization at the IMS b. Outstanding data distribution requests c. Outstanding processing requests d. Outstanding data acquisition requests	functional	
S-DMS- 31013				IMS-1660#	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	
<u>S-DMS-</u> <u>31014</u>	<u>B</u>	The GTWAY CI shall log to MSS when a service request has been successfully decomposed into its component requests.	inter	rface IMS-1650#	5380	MS operations data shall contain information on: a. System utilization at the IMS b. Outstanding data distribution requests c. Outstanding processing requests d. Outstanding data acquisition requests	functional	

<u>S-DMS-</u> 31014				IMS-1660#B	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	
<u>S-DMS-</u> <u>31015</u>	<u>B</u>	The GTWAY CI shall log to MSS when an external connection to the V0 IMS server has been established.	interface	IMS-1650#B	5380	MS operations data shall contain information on: a. System utilization at the IMS b. Outstanding data distribution requests c. Outstanding processing requests d. Outstanding data acquisition requests	functional	
<u>S-DMS-</u> <u>31015</u>				IMS-1660#B	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	
<u>S-DMS-</u> <u>31016</u>	<u>B</u>	The GTWAY CI shall log to MSS when the component service request has been submitted to the V0 IMS server.	interface	IMS-1650#B	5380	MS operations data shall contain information on: a. System utilization at the IMS b. Outstanding data distribution requests c. Outstanding processing requests d. Outstanding data acquisition requests	functional	
S-DMS- 31016				IMS-1660#B	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	

<u>S-DMS-</u> 31017	<u>B</u>	The GTWAY CI shall log to MSS when the request to the V0 IMS server has been successfully returned.	j	interface	IMS-1650#B	5380	MS operations data shall contain information on: a. System utilization at the IMS b. Outstanding data distribution requests c. Outstanding processing requests d. Outstanding data acquisition requests	functional	
<u>S-DMS-</u> <u>31017</u>					IMS-1660#B	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	
<u>S-DMS-</u> <u>31018</u>	<u>B</u>	The GTWAY CI shall log to MSS when the results of the request has been integrated and status is about to be sent to the client program.	j	<u>interface</u>	IMS-1650#B	5380	IMS operations data shall contain information on: a. System utilization at the IMS b. Outstanding data distribution requests c. Outstanding processing requests d. Outstanding data acquisition requests	functional	
<u>S-DMS-</u> <u>20865</u>	<u>B</u>	The DDICT CI shall log to MSS the initiation of all Service requests.	1	<u>functional</u>	IMS-1650#B	5380	MS operations data shall contain information on: a. System utilization at the IMS b. Outstanding data distribution requests c. Outstanding processing requests d. Outstanding data acquisition requests	functional	
S-DMS- 20865					IMS-1660#B	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	

<u>S-DMS-</u> 20866	<u>B</u>	The DDICT CI shall log the startup of the DDICT servers to MSS	interface		5377	The IMS shall provide to the SMC, status to include at a minimum: a. Integration, testing, and simulation status b. Maintenance status c. Logistics status d. Training information	interface	
<u>S-DMS-</u> 20867	<u>B</u>	The DDICT CI shall log the shutdown of the DDICT servers to MSS.	functional		5377	The IMS shall provide to the SMC, status to include at a minimum: a. Integration, testing, and simulation status b. Maintenance status c. Logistics status d. Training information	interface	
<u>S-DMS-</u> <u>20868</u>	<u>B</u>	The DDICT CI shall log to MSS when a service request is activated from the queue.	interface	IMS-1650#B	5380	MS operations data shall contain information on: a. System utilization at the IMS b. Outstanding data distribution requests c. Outstanding processing requests d. Outstanding data acquisition requests	functional	
S-DMS- 20868					5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	
<u>S-DMS-</u> <u>20869</u>	<u>B</u>	The DDICT CI shall log to MSS when a request has been successfully completed and the status is about to be returned to the client.	interface	IMS-1650#B	5380	MS operations data shall contain information on: a. System utilization at the IMS b. Outstanding data distribution requests c. Outstanding processing requests d. Outstanding data acquisition requests	functional	

<u>S-DMS-</u> 20869				<u>IMS-1660#B</u>	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time	interface	
S-DMS- 20870	<u>B</u>	The DDICT CI shall log to MSS the initiation of a session.	function	onal <u>IMS-1660#B</u>	5381	c. Connect time d. Session histories The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time	interface	
S-DMS- 20871	<u>B</u>	The DDICT CI shall log to MSS the suspension of a session.	function	onal IMS-1660#B	5381	d. Session histories The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	
S-DMS- 20872	<u>B</u>	The DDICT CI shall log to MSS the resumption of a previously suspended session.	function	onal IMS-1660#B	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	
<u>S-DMS-</u> 20873	<u>B</u>	The DDICT CI shall log to MSS the termination of a session.	function	onal IMS-1660#B	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	

<u>S-DMS-</u> 20795	<u>B</u>	The DDICT CI shall support operations staff in the creation of utilization reports, and the operations staff shall distribute them on a periodic basis to a predefined list of report recipients.	procedural	IMS-1680#B	5383	The IMS status monitoring function shall provide the capability to distribute reports on a periodic basis to a predefined list of report recipients.	functional	
<u>S-DMS-</u> <u>20796</u>	<u>B</u>	The DDICT CI shall provide operations staff with the capability to distribute DDICT CI utilization reports eletronically or in hard copy or on electronic media.	functional	IMS-1690#B	5397	The IMS status monitoring function shall provide the capability to disseminate reports on-line electronically and off-line on either paper or electronic media.		
<u>S-DMS-</u> <u>32000</u>	<u>B</u>	The GTWAY CI shall support operations staff in the creation of utilization reports, and the operations staff shall distribute them on a periodic basis to a predefined list of report recipients.	procedural	IMS-1680#B	5383	The IMS status monitoring function shall provide the capability to distribute reports on a periodic basis to a predefined list of report recipients.	functional	
<u>S-DMS-</u> 32001	<u>B</u>	The GTWAY CI shall provide operations staff with the capability to distribute GTWAY CI utilization reports eletronically or in hard copy or on electronic media.	functional	IMS-1690#B	5397	The IMS status monitoring function shall provide the capability to disseminate reports on-line electronically and off-line on either paper or electronic media.		
<u>S-DMS-</u> <u>00605</u>	<u>B</u>	The LIMGR CI shall provide operations staff with the capability to generate daily LIMGR operations summary reports.	functional	IMS-1700#B		The IMS shall provide the capability to generate reports on: a. The backlog of data distribution requests b. The backlog of processing requests c. The backlog of data acquisition requests d. Data quality assessment e. Daily IMS operations summaries f. IMS performance summaries		
<u>S-DMS-</u> <u>00606</u>	<u>B</u>	The LIMGR CI shall provide operations staff with the capability to generate LIMGR performance summary reports.	functional	<u>IMS-1700#B</u>	5384	The IMS shall provide the capability to generate reports on: a. The backlog of data distribution requests b. The backlog of processing requests c. The backlog of data acquisition requests d. Data quality assessment e. Daily IMS operations summaries f. IMS performance summaries	functional	

<u>S-DMS-</u> 10385	<u>B</u>	The DIMGR CI shall provide operations staff with the capability to generate daily DIMGR operations summary reports.	<u>functional</u>	IMS-1700#B	5384	The IMS shall provide the capability to generate reports on: a. The backlog of data distribution requests b. The backlog of processing requests c. The backlog of data acquisition requests d. Data quality assessment e. Daily IMS operations summaries f. IMS performance summaries		
<u>S-DMS-</u> <u>10386</u>	<u>B</u>	The DIMGR CI shall provide operations staff with the capability to generate DIMGR performance summary reports.	functional	IMS-1700#B		The IMS shall provide the capability to generate reports on: a. The backlog of data distribution requests b. The backlog of processing requests c. The backlog of data acquisition requests d. Data quality assessment e. Daily IMS operations summaries f. IMS performance summaries		
<u>S-DMS-</u> <u>20355</u>	<u>B</u>	The DDICT CI shall provide operations staff with the capability to generate daily DDICT operations summary reports.	functional	IMS-1700#B	5384	The IMS shall provide the capability to generate reports on: a. The backlog of data distribution requests b. The backlog of processing requests c. The backlog of data acquisition requests d. Data quality assessment e. Daily IMS operations summaries f. IMS performance summaries		
S-DMS- 20356	<u>B</u>	The DDICT CI shall provide operations staff with the capability to generate DDICT performance summary reports.	functional	IMS-1700#B	5384	The IMS shall provide the capability to generate reports on: a. The backlog of data distribution requests b. The backlog of processing requests c. The backlog of data acquisition requests d. Data quality assessment e. Daily IMS operations summaries f. IMS performance summaries	functional	

S-DMS- 32010	<u>B</u>	The GTWAY CI shall provide operations staff with the capability to generate daily GTWAY operations summary reports.	functional	IMS-1700#B		The IMS shall provide the capability to generate reports on: a. The backlog of data distribution requests b. The backlog of processing requests c. The backlog of data acquisition requests d. Data quality assessment e. Daily IMS operations summaries f. IMS performance summaries		
<u>S-DMS-</u> <u>32011</u>	<u>B</u>	The GTWAY CI shall provide operations staff with the capability to generate GTWAY performance summary reports.	functional	IMS-1700#B		The IMS shall provide the capability to generate reports on: a. The backlog of data distribution requests b. The backlog of processing requests c. The backlog of data acquisition requests d. Data quality assessment e. Daily IMS operations summaries f. IMS performance summaries		
S-IOS- 00520	A	The ADSRV CI shall provide operations staff with the capability to generate daily ADSRV operations summary reports.	functional	IMS-1700#B	5384	The IMS shall provide the capability to generate reports on: a. The backlog of data distribution requests b. The backlog of processing requests c. The backlog of data acquisition requests d. Data quality assessment e. Daily IMS operations summaries f. IMS performance summaries		
S-IOS- 00520				IMS-1700#A	5569	The IMS shall provide the capability to generate reports on: a. The backlog of data distribution requests b. The backlog of processing requests c. The backlog of data acquisition requests d. Data quality assessment e. Daily IMS operations summaries f. IMS performance summaries	functional	

S-IOS- 00530		A	The ADSRV CI shall provide operations staff with the capability to generate ADSRV performance summary reports.	functional	IMS-1700#B	5384	The IMS shall provide the capability to generate reports on: a. The backlog of data distribution requests b. The backlog of processing requests c. The backlog of data acquisition requests d. Data quality assessment e. Daily IMS operations summaries f. IMS performance summaries		
<u>S-IOS-</u> <u>00530</u>					IMS-1700#A	5569	The IMS shall provide the capability to generate reports on: a. The backlog of data distribution requests b. The backlog of processing requests c. The backlog of data acquisition requests d. Data quality assessment e. Daily IMS operations summaries f. IMS performance summaries	functional	
<u>S-DMS-</u> <u>00115</u>		<u>B</u>	The LIMGR CI shall support search requests against result sets from previous searches within the same session.	functional	IMS-0570#B	5166	The IMS shall provide an incremental search capability.	functional	
<u>S-DMS-</u> 10115		<u>B</u>	The DIMGR CI shall support search requests against result sets from previous searches within the same session.	functional	IMS-0570#B	5166	The IMS shall provide an incremental search capability.	functional	
S-DMS- 00610	8376	В	The LIMGR CI operations staff shall provide have the capability to receive maintenance directives from the SMC.	interface procedural					
S-DMS- 00620	8377	В	The LIMGR CI operations staff shall provide have the capability to receive directives for integration, testing, and simulation from the SMC.	interface procedural					
S-DMS- 00630	8378	В	The LIMGR CI operations staff shall provide have the capability to receive configuration management directives from the SMC.	interface procedural					
S-DMS- 00640	8379	В	The LIMGR CI operations staff shall provide have the capability to receive logistics management directives from the SMC.	interface procedural					

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S-DMS- 00650	8380	В	The LIMGR CI operations staff shall provide have the capability to receive fault management directives from the SMC.	interf	face edural			
S-DMS- 00660	8381	В	The LIMGR CI operations staff shall provide have the capability to receive security directives from the SMC.	interf	face cedural			
S-DMS- 00670	8382	В	The LIMGR CI operations staff shall provide have the capability to receive training management directives from the SMC.	interf proce	face cedural			

February 14, 1996 37 Table 2 - LEVEL_4 requirements changes

	Table 2 - LEVEL_4 requirements changes						
L4 ID	RT	Rel	L4 Text	Clarification	Req Type		
	M						
	Key						
S-DMS-		<u>B</u>	The LIMGR CI shall be available		functional		
00565			24 hours a day, 7 days a week				
			within the constraints of the RMA				
			requirements.				
S-DMS-		В	The DDICT CI shall be available 24		functional		
20695			hours a day, 7 days a week within				
			the constraints of the RMA				
			requirements.				
S-DMS-		<u>B</u>	The DIMGR CI shall be available		functional		
10345			24 hours a day, 7 days a week				
			within the constraints of the RMA				
			requirements.				
S-DMS-		Α	The GTWAY CI shall be available		functional		
30100			24 hours a day, 7 days a week				
			within the constraints of the RMA				
			requirements.				
S-IOS-		Α	The ADSRV CI shall be available		functional		
00480			24 hours a day, 7 days a week		101101101101		
			within the constraints of the RMA				
			requirements.				
S-DMS-		C-B	The DDICT CI shall provide the		functional		
20920	3087	0 2	capability to relate		Turio il oriur		
=0>=0	2007		Phenomenological Search Criteria				
			to Search Criteria containing values				
			for searchable attributes supported				
			in the Data Server Schema.				
S-DMS-		<u>B</u>	The DDICT CI shall store a		functional		
20006		_	mapping of geophysical parameters				
			to the appropriate instruments and				
			collections.				
S-DMS-		В	The DDICT CI shall provide the		functional		
20007		-	capability to search a mapping of				
			geophysical parameters to the				
			appropriate instruments and				
			collections.				
S-DMS-		В	The DDICT CI shall store		functional		
20008		-	descriptive information about				
			keywords associated with a				
			collection, including at a minimum				
			instruments and geophysical				
			parameters.				
L	L		<u> </u>		1		

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S-DMS-	<u>B</u>	The DDICT CI shall provide the	<u>functional</u>
<u>20009</u>		capability to search descriptive	
		information about keywords	
		associated with a collection,	
		including at a minimum	
		instruments and geophysical	
		parameters.	
S-DMS-	<u>B</u>	The DDICT CI shall store a	functional
20010		conceptual schema of the data held	
		in the SDSRV, LIMGR, and	
		DIMGR to hide the underlying	
		database structure from the end	
		user.	
S-DMS-	В	The DIMGR CI shall accept	functional
10765	-	searches in the Earth Science Query	
		Language.	
S-DMS-	В	The Earth Science Query Language	functional
10770		shall support the specification of	
		search conditions using search	
		expressions in combination with	
		boolean and relational operators.	
S-DMS-	В	The Earth Science Query Language	functional
10771		shall support the specification of	Tunctional
10771		search expressions using the	
		attribute names and exact word	
		matches for string attributes	
		associated with non-geographic	
		metadata.	
S-DMS-	В	The Earth Science Query Language	functional
10772		shall support the specification of	Tunctional
10772		search expressions using the	
		attribute names and phrase matches	
		for string attributes associated with	
		non-geographic metadata.	
S-DMS-	В	The Earth Science Query Language	functional
10773	<u>D</u>	shall support the specification of	<u>runctional</u>
10773		search expressions using the	
		attribute names and character sets	
		for string attributes associated with	
		non-geographic metadata.	
S-DMS-	D	The Earth Science Query Language	functional
	<u>B</u>	shall support the specification of	Tuncuonai
10774			
		search expressions using the	1
		attribute names and wildcard	
		constructs for string attributes	
		associated with non-geographic	
		metadata.	<u> </u>

S-DMS-	Ī	D	The Forth Coiones Ouers I anguero	functional
		<u>B</u>	The Earth Science Query Language	<u>runcuonai</u>
<u>10775</u>			shall support the specification of	
			search expressions using the	
			attribute names and character ranges	
			for string attributes associated with	
			non-geographic metadata.	
S-DMS-		<u>B</u>	The Earth Science Query Language	<u>functional</u>
<u>10776</u>			shall support the specification of	
			search expressions using the	
			attribute names and minimum and	
			maximum range for numeric and	
			date/time attributes associated with	
			non-geographic metadata.	
S-DMS-	8335	В	The LIMGR CI shall accept Search	functional
00020			Requests in the format defined in	
			Appendix K of the current version	
			of 304-CD-005. in a format	
			compatible with the Earth Science	
			Query Language.	
S-DMS-		В	The DDICT CI shall have the	functional
20130	8517		capability to accept from the	
			Workbench CI data dictionary	
			search requests consisting of any	
			combination of the following: Earth	
			Science Data Types, Core Metadata	
			attribute, and Product Specific	
			Metadata in a format compatible	
			with the Earth Science Query	
			Language.	
S-IOS-	9128	В	The ADSRV CI shall accept Search	functional
00690			Requests as specified in Appendix	
			A of the current version of 304-CD-	
			002 for Release A and as specified	
			in Appendix K of the current	
			version of 304-CD-005 in a format	
			compatible with the Earth Science	
			Query Language.	

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S-DMS- 30760	8617	В	Partial Results shall consist of Search Results accumulated to the time of the request for partial results, or Search Results accumulated since the last request for partial results The GTWAY CI shall provide partial results upon request which consists of the results from the start of the request or since the last request for results.	functional
S-DMS- 10760	8485	В	Partial Results shall consist of Search Results accumulated to the time of the request for partial results, or Search Results accumulated since the last Request for partial results The DIMGR CI shall provide partial results upon request which consists of the results from the start of the request or since the last request for results.	functional
S-DMS- 00740	8485	В	Partial Results shall consist of Search Results accumulated to the time of the request for partial results, or Search Results accumulated since the last Request for partial results The LIMGR CI shall provide partial results upon request which consists of the results from the start of the request or since the last request for results.	functional
S-DMS- 00710	8387	В	The LIMGR CI shall collect report Accountability Management Data (requests such as searches, browse requests, orders) and provide it to the MSS.	interface
S-DMS- 10560	8468	В	The DIMGR CI shall collect report Accountability Management Data (requests such as searches, browse requests, orders) and provide it to the MSS.	interface

S-DMS-		В	The DDICT CI shall collect report	interface
20840	8569		Accountability Management Data	
			(requests such as searches, browse	
			requests, orders) and provide it to	
			the MSS.	
S-DMS-		<u>B</u>	The GTWAY CI shall report	functional
31050			Accountability Management Data	
			(requests such as searches, browse	
			requests, orders) to the MSS.	
S-DMS-		<u>B</u>	The LIMGR CI shall send detected	functional
00520			hardware and software fault	
			information to MSS.	
S-DMS-		В	The DIMGR CI shall send detected	functional
10530	8463		hardware and software fault	
			information to MSS collect the	
			management data used to support	
			fault recovery management.	
S-DMS-		В	The DDICT CI shall collect Fault	interface
20820	8567		Management Data and provide it to	
			the MSS provide detected hardware	
			and software information to MSS.	
S-DMS-		В	The GTWAY CI shall send	functional
31051			detected hardware and software	
			fault information to MSS.	
S-DMS-	8383	В	The LIMGR CI shall collect the	functional
00690			management data used to support	
			configuration management .provide	
			configuration management data	
			such as software versions to MSS	
			through the use of managed process	
			framework.	
S-DMS-	8464	В	The DIMGR CI shall collect the	functional
10540			management data used to support	
			configuration management shall	
			provide configuration management	
			data such as software versions to	
			MSS through managed process	
			framework.	
S-DMS-	8568	В	The DDICT CI shall collect	interface
20830			Configuration Management Data	
			and provide it to the MSS provide	
			configuration management data	
			such as software versions to the	
			MSS using the managed process	
			framework.	
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S-DMS-		<u>B</u>	The GTWAY CI shall provide	<u>functional</u>
31052			configuration management data	
			such as software versions to MSS	
			using managed process framework.	
S-DMS-	8384	В	The LIMGR CI shall collect	functional
00700			Accounting Management Data used	
			to support accounting support the	
			MSS in collecting Accounting	
			Management Data by supplying	
			resource utilization data.	
S-DMS-	8465	В	The DIMGR CI shall collect	functional
10550			Accounting Management Data used	
			to support accounting support the	
			MSS in collecting Accounting	
			Management Data by supplying	
			resource utilization data.	
S-DMS-		В	The DDICT CI shall support the	functional
20835		-	MSS in collecting Accounting	
			Management Data by supplying	
			resource utilization data.	
S-DMS-		В	The GTWAY CI shall support the	functional
31056		-	MSS in collecting Accounting	
			Management Data by supplying	
			resource utilization data.	
S-DMS-	8388	В	The LIMGR CI shall collect	interface
00720	0000		Performance Management Data	
00,20			using the MSS managed object	
			components and provide it to the	
			MSS at configurable intervals and	
			on demand.	
S-DMS-	8469	В	The DIMGR CI shall collect	interface
10570	0107	"	Performance Management Data	Interface
10370			using the MSS managed object	
			components and provide it to the	
			MSS at configurable intervals and	
			on demand.	
S-DMS-	 	В	The DDICT CI shall collect	interface
20850	8570	"	Performance Management Data	Interface
20030	3370		using the MSS managed object	
			components and provide it to the	
			MSS at configurable intervals and	
			on demand.	
			on acmana.	

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S-DMS-		<u>B</u>	The GTWAY CI shall collect	interface
<u>31053</u>			Performance Management Data	
			using the MSS managed object	
			components and provide it to the	
			MSS at configurable intervals and	
			on demand.	
S-DMS-		В	The LIMGR CI shall collect the	functional
00530	8368		management data used to support	
			security management. collect	
			Security Management Data (such as	
			rejected access to a service) and	
			provide it to the MSS.	
S-DMS-		В	The DIMGR CI shall collect	interface
10580	8470		Security Management Data (such as	
			rejected access to a service) and	
			provide it to the MSS.	
S-DMS-		В	The DDICT CI shall collect the	functional
20660	8552		management data used to support	
			security management. collect	
			Security Management Data (such as	
			rejected access to a service) and	
			provide it to the MSS.	
S-DMS-		<u>B</u>	The GTWAY CI shall collect	interface
<u>31054</u>			Security Management Data (such as	
			rejected access to a service) and	
			provide it to the MSS.	
S-DMS-	8389	В	The LIMGR CI shall collect	interface
00730			Scheduling Management Data and	
			provide it to the MSS provide	
			configuration information such as	
			number of expected daily sessions,	
			which will be used by MSS to	
			compare plans to actuals (i.e.	
			schedule management).	
S-DMS-		В	The DIMGR CI shall collect	interface
10590	8471		Scheduling Management Data used	
			to support scheduling management	
			and provide it to the MSS provide	
			configuration information such as	
			number of expected daily sessions,	
			which will be used by MSS to	
			compare plans to actuals (i.e.	
			schedule management).	

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S-DMS-		В	The DDICT CI shall collect	interface
20860	8571		Scheduling Management Data and	
			provide it to the MSS provide	
			configuration information such as	
			number of expected daily sessions,	
			which will be used by MSS to	
			compare plans to actuals (i.e.	
			schedule management).	
S-DMS-		<u>B</u>	The GTWAY CI shall provide	<u>interface</u>
<u>31057</u>			configuration information such as	
			number of expected daily sessions,	
			which will be used by MSS to	
			compare plans to actuals (i.e.	
			schedule management).	
0.100	0010			
S-IOS-	9218	Α	The ADSRV CI shall collect	interface
00490			software Fault Management Data	
			about its own operations and	
			provide it to the MSS.	
			The ADSRV CI shall send detected	
			hardware and software fault	
			information to MSS.	
S-IOS-	9219	Α		interface
~ ~	9219	A	The ADSRV CI shall collect report	interrace
00510			Accountability Management Data	
			(such as searches, advertisement	
			submissions, etc.) about its own	
			operations and provide it to the	
			MSS.	
S-IOS-		Α	The ADSRV CI shall collect	interface
00515		_	Performance Management Data	
00313			using the MSS managed object	
			components and provide it to the	
			MSS at configurable intervals and	
			on demand.	
S-IOS-		<u>B</u>	The ADSRV CI shall support the	<u>interface</u>
<u>00516</u>			MSS in collecting Accounting	
			Management Data by supplying	
			resource utilization data.	
S-IOS-		В	The ADSRV CI shall provide	interface
00517		<u> </u>	configuration information such as	meriace
00317				
			expected moderation approval time,	
			which will be used by MSS to	
			compare plans to actuals (i.e.	
			schedule management).	
S-IOS-		Α	The ADSRV CI shall provide	functional
00518		_	configuration management data	
30010			such as software versions to MSS	
			using managed process framework.	
<u> </u>		1	using managed process framework.	

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S-IOS-	9028	В	The ADSRV CI shall provide its	functional
00940			current mode to MSS on request.	<u>interface</u>
S-IOS-		В	The ADSRV CI shall provide a	functional
00950	9029		capability for logistics and	<u>interface</u>
			maintenance status to be provided to	
			the SMC.	
S-DMS-		<u>B</u>	The GTWAY CI shall provide	<u>interface</u>
31058			integration, testing, and simulation	
			status to the MSS.	
S-DMS-		<u>B</u>	The GTWAY CI shall provide	interface
<u>31059</u>			maintenance status to the MSS.	
S-DMS-		В	The GTWAY CI shall provide	interface
31062			logistics status to the SMC.	
S-DMS-		В	The GTWAY CI shall provide	interface
31061		_	training information to the SMC.	
S-DMS-	8406	В	The LIMGR CI shall log to MSS all	functional
01010			Service requests received initiated	
			during a session.	
S-DMS-		В	The LIMGR CI shall log the	interface
01015		_	successful completion of each	111111111111111111111111111111111111111
			service request to MSS.	
S-DMS-		В	The LIMGR CI shall log the startup	interface
00912		_	of the LIMGR servers to MSS	<u>interface</u>
S-DMS-		В	The LIMGR CI shall log the	functional
00913		_	shutdown of the LIMGR servers to	101101101
30710			MSS.	
S-DMS-		В	The LIMGR CI shall log to MSS	interface
01011		_	when a service request is activated	
			from the queue.	
S-DMS-		В	The LIMGR CI shall log to MSS	interface
01012		_	when a service request has been	<u>interrace</u>
01012			successfully decomposed into its	
			component requests.	
S-DMS-		В	The LIMGR CI shall log to MSS	interface
01012		2	when an external connection (i.e. to	micraec
01012			GTWAY or SDSRV) has been	
			established.	
S-DMS-		В	The LIMGR CI shall log to MSS	interface
01013		2	when the component service request	micraec
01015			has been submitted to the external	
			entity (e.g. GTWAY, SDSRV).	
S-DMS-	 	В	The LIMGR CI shall log to MSS	interface
01014		"	when the request to the external	menace
01017			entity (e.g. GTWAY, SDSRV) has	
			been successfully returned.	
L	L		been successiving feturited.	

S-DMS- B			r	1	
S-DMS- B The DIMGR CI shall log to MSS interface shutdown of the DIMGR Servers to MSS shutdown of the DIMGR CI shall log the successful completion of each service requests received interface shutdown of the DIMGR Servers to MSS shutdown			<u>B</u>		interface
S-DMS- 1010 S-DMS- 1010 S-DMS- 1010 S-DMS- 1011 S-DMS- 1010 S-DMS- 1011 S-DMS	01015				
S-DMS- B The DIMGR CI shall log to MSS all Service requests received initiated during a session.					
S-DMS- 11010 B				status is about to be sent to the client	
S-DMS- B The DIMGR CI shall log to MSS Interface					
S-DMS- B The DIMGR CI shall log the successful completion of each service request to MSS.		8500	В		functional
S-DMS- B	11010				
S-DMS-				<u>initiated</u> during a session.	
Service request to MSS. S-DMS-	S-DMS-		<u>B</u>	The DIMGR CI shall log the	interface
S-DMS- B	<u>11011</u>				
10595 S-DMS- B				service request to MSS.	
S-DMS- B	S-DMS-		<u>B</u>	The DIMGR CI shall log the startup	interface
S-DMS- B	<u>10595</u>			of the DIMGR servers to MSS	
S-DMS- B The DIMGR CI shall log to MSS when a service request is activated from the queue.	S-DMS-		В	The DIMGR CI shall log the	functional
S-DMS- B The DIMGR CI shall log to MSS when a service request is activated from the queue.	10596			shutdown of the DIMGR servers to	
S-DMS- B The DIMGR CI shall log to MSS when a service request has been successfully decomposed into its component requests.				MSS.	
S-DMS- B The DIMGR CI shall log to MSS when a service request has been successfully decomposed into its component requests.	S-DMS-		В	The DIMGR CI shall log to MSS	interface
S-DMS- B The DIMGR CI shall log to MSS when a service request has been successfully decomposed into its component requests. S-DMS- B The DIMGR CI shall log to MSS when an external connection (i.e. to LIMGR, GTWAY or SDSRV) has been established. S-DMS- B The DIMGR CI shall log to MSS when the component service request has been submitted to the external entity (e.g. LIMGR, GTWAY, SDSRV). S-DMS- B The DIMGR CI shall log to MSS when the request to the external entity (e.g. LIMGR, GTWAY, SDSRV). S-DMS- B The DIMGR CI shall log to MSS when the request to the external entity (e.g. LIMGR, GTWAY, SDSRV) has been successfully returned. S-DMS- B The DIMGR CI shall log to MSS when the results of the external requests have been integrated and status is about to be sent to the client program. S-DMS- 3167 A The GTWAY CI shall log to MSS functional	11012			when a service request is activated	
S-DMS- B				from the queue.	
S-DMS- B The DIMGR CI shall log to MSS when the component service request has been successfully decomposed into its component requests. S-DMS-	S-DMS-		В	The DIMGR CI shall log to MSS	interface
S-DMS- B The DIMGR CI shall log to MSS interface					
S-DMS- 11014 B The DIMGR CI shall log to MSS when an external connection (i.e. to LIMGR, GTWAY or SDSRV) has been established. S-DMS- 11015 B The DIMGR CI shall log to MSS when the component service request has been submitted to the external entity (e.g. LIMGR, GTWAY, SDSRV). S-DMS- 11016 B The DIMGR CI shall log to MSS when the request to the external entity (e.g. LIMGR, GTWAY, SDSRV). S-DMS- 11016 B The DIMGR CI shall log to MSS when the request to the external entity (e.g. LIMGR, GTWAY, SDSRV) has been successfully returned. S-DMS- 11017 B The DIMGR CI shall log to MSS interface When the results of the external requests have been integrated and status is about to be sent to the client program. S-DMS- 3167 A The GTWAY CI shall log to MSS functional				successfully decomposed into its	
S-DMS- B The DIMGR CI shall log to MSS when the component service request has been submitted to the external entity (e.g. LIMGR, GTWAY, SDSRV). S-DMS- B The DIMGR CI shall log to MSS when the component service request has been submitted to the external entity (e.g. LIMGR, GTWAY, SDSRV). S-DMS- B The DIMGR CI shall log to MSS when the request to the external entity (e.g. LIMGR, GTWAY, SDSRV) has been successfully returned. S-DMS- B The DIMGR CI shall log to MSS when the results of the external requests have been integrated and status is about to be sent to the client program. S-DMS- 3167 A The GTWAY CI shall log to MSS functional				component requests.	
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S-DMS- B The DIMGR CI shall log to MSS when the component service request has been submitted to the external entity (e.g. LIMGR, GTWAY, SDSRV). S-DMS- B The DIMGR CI shall log to MSS when the request to the external entity (e.g. LIMGR, GTWAY, SDSRV) has been successfully returned. S-DMS- B The DIMGR CI shall log to MSS when the results of the external entity (e.g. LIMGR, GTWAY, SDSRV) has been successfully returned. S-DMS- 11017 B The DIMGR CI shall log to MSS when the results of the external requests have been integrated and status is about to be sent to the client program. S-DMS- 3167 A The GTWAY CI shall log to MSS functional	11014			when an external connection (i.e. to	
S-DMS- B				LIMGR, GTWAY or SDSRV) has	
S-DMS- B The DIMGR CI shall log to MSS when the reguest to the external entity (e.g. LIMGR, GTWAY, SDSRV).				been established.	
S-DMS- B The DIMGR CI shall log to MSS when the reguest to the external entity (e.g. LIMGR, GTWAY, SDSRV).	S-DMS-		В	The DIMGR CI shall log to MSS	interface
has been submitted to the external entity (e.g. LIMGR, GTWAY, SDSRV). S-DMS- B The DIMGR CI shall log to MSS when the request to the external entity (e.g. LIMGR, GTWAY, SDSRV) has been successfully returned. S-DMS- B The DIMGR CI shall log to MSS when the results of the external requests have been integrated and status is about to be sent to the client program. S-DMS- 3167 A The GTWAY CI shall log to MSS functional	11015			when the component service request	
SDSRV . S-DMS- B The DIMGR CI shall log to MSS when the request to the external entity (e.g. LIMGR, GTWAY, SDSRV) has been successfully returned. S-DMS- I1017 B The DIMGR CI shall log to MSS when the results of the external requests have been integrated and status is about to be sent to the client program. S-DMS- 3167 A The GTWAY CI shall log to MSS functional				has been submitted to the external	
SDSRV . S-DMS- B The DIMGR CI shall log to MSS when the request to the external entity (e.g. LIMGR, GTWAY, SDSRV) has been successfully returned. S-DMS- I1017 B The DIMGR CI shall log to MSS when the results of the external requests have been integrated and status is about to be sent to the client program. S-DMS- 3167 A The GTWAY CI shall log to MSS functional				entity (e.g. LIMGR, GTWAY,	
Mean the request to the external entity (e.g. LIMGR, GTWAY, SDSRV) has been successfully returned. S-DMS-				SDSRV).	
Mean the request to the external entity (e.g. LIMGR, GTWAY, SDSRV) has been successfully returned. S-DMS-	S-DMS-		<u>B</u>	The DIMGR CI shall log to MSS	interface
S-DMS- 11017 B The DIMGR CI shall log to MSS when the results of the external requests have been integrated and status is about to be sent to the client program. S-DMS- 3167 A The GTWAY CI shall log to MSS functional	11016			when the request to the external	
S-DMS- 11017 B The DIMGR CI shall log to MSS when the results of the external requests have been integrated and status is about to be sent to the client program. S-DMS- 3167 A The GTWAY CI shall log to MSS functional				entity (e.g. LIMGR, GTWAY,	
S-DMS- 11017 B The DIMGR CI shall log to MSS when the results of the external requests have been integrated and status is about to be sent to the client program. S-DMS- 3167 A The GTWAY CI shall log to MSS functional				SDSRV) has been successfully	
11017 when the results of the external requests have been integrated and status is about to be sent to the client program. S-DMS- 3167 A The GTWAY CI shall log to MSS functional				returned.	
11017 when the results of the external requests have been integrated and status is about to be sent to the client program. S-DMS- 3167 A The GTWAY CI shall log to MSS functional	S-DMS-		<u>B</u>	The DIMGR CI shall log to MSS	interface
requests have been integrated and status is about to be sent to the client program. S-DMS- 3167 A The GTWAY CI shall log to MSS functional					
S-DMS- 3167 A The GTWAY CI shall log to MSS functional				requests have been integrated and	
S-DMS- 3167 A The GTWAY CI shall log to MSS functional				status is about to be sent to the client	
31010 the initiation of all Service requests.		3167	A		functional
· · · · · · · · · · · · · · · · · · ·	31010			the initiation of all Service requests.	

S-DMS-	<u>B</u>	The GTWAY CI shall log the	<u>interface</u>
<u>31011</u>		startup of the GTWAY servers to	
		MSS	
S-DMS-	<u>B</u>	The GTWAY CI shall log the	functional
31012		shutdown of the GTWAY servers	
		to MSS.	
S-DMS-	В	The GTWAY CI shall log to MSS	interface
31013	-	when a service request is activated	
		from the queue.	
S-DMS-	В	The GTWAY CI shall log to MSS	interface
31014	-	when a service request has been	
31011		successfully decomposed into its	
		component requests.	
S-DMS-	В	The GTWAY CI shall log to MSS	interface
31015	1	when an external connection to the	micracc
31013		V0 IMS server has been	
		established.	
S-DMS-	В	The GTWAY CI shall log to MSS	interface
31016	1	when the component service request	interface
31010		has been submitted to the V0 IMS	
		server.	
C DMC	D	The GTWAY CI shall log to MSS	interface
<u>S-DMS-</u> 31017	<u>B</u>		<u>interrace</u>
31017		when the request to the VO IMS	
		server has been successfully	
G DMG	- D	returned.	
S-DMS-	<u>B</u>	The GTWAY CI shall log to MSS	interface
31018		when the results of the request has	
		been integrated and status is about	
g 53.66		to be sent to the client program.	
S-DMS-	<u>B</u>	The DDICT CI shall log to MSS	functional
<u>20865</u>		the initiation of all Service requests.	
S-DMS-	<u>B</u>	The DDICT CI shall log the startup	<u>interface</u>
<u>20866</u>		of the DDICT servers to MSS	
S-DMS-	<u>B</u>	The DDICT CI shall log the	<u>functional</u>
<u>20867</u>		shutdown of the DDICT servers to	
		MSS.	
S-DMS-	<u>B</u>	The DDICT CI shall log to MSS	<u>interface</u>
<u>20868</u>		when a service request is activated	
		from the queue.	
S-DMS-	В	The DDICT CI shall log to MSS	interface
20869		when a request has been	
		successfully completed and the	
		status is about to be returned to the	
		client.	
S-DMS-	В	The DDICT CI shall log to MSS	functional
20870	-	the initiation of a session.	
=			

S-DMS-	<u>B</u>	The DDICT CI shall log to MSS	functional
<u>20871</u>		the suspension of a session.	
S-DMS-	<u>B</u>	The DDICT CI shall log to MSS	functional
20872		the resumption of a previously	
		suspended session.	
S-DMS-	В	The DDICT CI shall log to MSS	functional
20873		the termination of a session.	
S-DMS-	В	The DDICT CI shall support	procedural
20795		operations staff in the creation of	1
		utilization reports, and the	
		operations staff shall distribute them	
		on a periodic basis to a predefined	
		list of report recipients.	
S-DMS-	В	The DDICT CI shall provide	functional
20796		operations staff with the capability	
		to distribute DDICT CI utilization	
		reports eletronically or in hard copy	
		or on electronic media.	
S-DMS-	<u>B</u>	The GTWAY CI shall support	procedural
32000		operations staff in the creation of	-
		utilization reports, and the	
		operations staff shall distribute them	
		on a periodic basis to a predefined	
		list of report recipients.	
S-DMS-	В	The GTWAY CI shall provide	functional
32001		operations staff with the capability	
		to distribute GTWAY CI utilization	
		reports eletronically or in hard copy	
		or on electronic media.	
S-DMS-	<u>B</u>	The LIMGR CI shall provide	functional
00605	-	operations staff with the capability	
		to generate daily LIMGR operations	
		summary reports.	
S-DMS-	В	The LIMGR CI shall provide	functional
00606	-	operations staff with the capability	
		to generate LIMGR performance	
		summary reports.	
S-DMS-	В	The DIMGR CI shall provide	functional
10385	-	operations staff with the capability	
		to generate daily DIMGR	
		operations summary reports.	
S-DMS-	В	The DIMGR CI shall provide	functional
10386	=	operations staff with the capability	
- 3000		to generate DIMGR performance	
		summary reports.	
1		banniary reports.	

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S-DMS-	1	В	The DDICT CI shall provide	functional
20355		Ð	operations staff with the capability	<u>runctional</u>
20333				
			to generate daily DDICT operations	
		_	summary reports.	
S-DMS-		<u>B</u>	The DDICT CI shall provide	<u>functional</u>
<u>20356</u>			operations staff with the capability	
			to generate DDICT performance	
			summary reports.	
S-DMS-		<u>B</u>	The GTWAY CI shall provide	functional
<u>32010</u>			operations staff with the capability	
			to generate daily GTWAY	
			operations summary reports.	
S-DMS-	1	В	The GTWAY CI shall provide	functional
32011		_	operations staff with the capability	1011011011
32011			to generate GTWAY performance	
			summary reports.	
S-IOS-	 	A	The ADSRV CI shall provide	functional
00520		A	operations staff with the capability	<u>runcuonai</u>
00320				
			to generate daily ADSRV	
	ļ		operations summary reports.	
S-IOS-		<u>A</u>	The ADSRV CI shall provide	functional
00530			operations staff with the capability	
			to generate ADSRV performance	
			summary reports.	
S-DMS-		<u>B</u>	The LIMGR CI shall support search	<u>functional</u>
00115			requests against result sets from	
			previous searches within the same	
			session.	
S-DMS-		В	The DIMGR CI shall support	functional
10115		_	search requests against result sets	
			from previous searches within the	
			same session.	
S-DMS-		В	The LIMGR CI operations staff	interface
00610	8376	-	shall provide have the capability to	procedural
00010	0370		receive maintenance directives from	procedurar
			the SMC.	
S-DMS-	-	В		intoufooo
S-DMS- 00620	8377	D	The LIMGR CI operations staff shall provide have the capability to	interface procedural
00020	03//			procedurai
			receive directives for integration,	
			testing, and simulation from the	
		<u> </u>	SMC.	
S-DMS-		В	The LIMGR CI operations staff	interface
00630	8378		shall provide <u>have</u> the capability to	procedural
			receive configuration management	
			directives from the SMC.	
	_		-	

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S-DMS- 00640	8379	В	The LIMGR CI operations staff shall provide have the capability to receive logistics management directives from the SMC.	interface procedural
S-DMS- 00650	8380	В	The LIMGR CI operations staff shall provide have the capability to receive fault management directives from the SMC.	interface procedural
S-DMS- 00660	8381	В	The LIMGR CI operations staff shall provide have the capability to receive security directives from the SMC.	interface procedural
S-DMS- 00670	8382	В	The LIMGR CI operations staff shall provide <u>have</u> the capability to receive training management directives from the SMC.	interface procedural

Table 3 - REQ_BY_REL requirements changes

RbR ID	RT	RbR Text	RbR Type	Interpretation
	M		. –	
	key			
IMS-0010#A	new	The IMS shall be capable of	<u>functional</u>	
		providing 24 hour per day, 7 day		
		per week access to the ECS		
		services.		

Table 4 - Links to be added between REQ_BY_REL and LEVEL_4

Table 4 - Links to be added between				
RbR ID	L4 ID			
IMS-0010#B	S-DMS-00565			
IMS-0010#B	S-DMS-20695			
IMS-0010#B	S-DMS-10345			
IMS-0010#A	S-DMS-30100			
IMS-0010#B	S-DMS-30100			
IMS-0010#A	S-IOS-00480			
IMS-0010#B	S-IOS-00480			
IMS-0510#B	S-DMS-20920			
IMS-0510#B	S-DMS-20006			
IMS-0510#B	S-DMS-20007			
IMS-0510#B	S-DMS-20008			
IMS-0510#B	S-DMS-20009			
IMS-0550#B	S-DMS-20010			
IMS-0630#B	S-DMS-10765			
IMS-0650#B	S-DMS-10765			
IMS-0630#B	S-DMS-10770			
IMS-0650#B	S-DMS-10771			
IMS-0630#B	S-DMS-10771			
IMS-0650#B	S-DMS-10772			
IMS-0650#B	S-DMS-10773			
IMS-0650#B	S-DMS-10774			
IMS-0650#B	S-DMS-10775			
IMS-0650#B	S-DMS-10776			
IMS-0630#B	S-DMS-00020			
IMS-0650#B	S-DMS-00020			
IMS-0630#B	S-DMS-20130			
IMS-0650#B	S-DMS-20130			
IMS-0630#B	S-IOS-00690			
IMS-0650#B	S-IOS-00690			
IMS-1620#B	S-DMS-31050			
IMS-1620#B	S-DMS-00520			
IMS-1760#B	S-DMS-00520			
IMS-1760#B	S-DMS-10530			
IMS-1760#B	S-DMS-20820			
IMS-1620#B	S-DMS-31051			
IMS-1760#B	S-DMS-31051			
IMS-1620#B	S-DMS-31052			
IMS-1660#B	S-DMS-00700			
IMS-1660#B	S-DMS-10550			
IMS-1660#B	S-DMS-20835			
IMS-1620#B	S-DMS-31056			
IMS-1660#B	S-DMS-31056			

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IMS-1620#B	S-DMS-31053
IMS-1620#B	S-DMS-31054
IMS-1620#B	S-DMS-31057
IMS-1760#B	S-IOS-00490
IMS-1620#B	S-IOS-00515
IMS-1620#A	S-IOS-00515
IMS-1620#B	S-IOS-00516
IMS-1620#A	S-IOS-00516
IMS-1660#A	S-IOS-00516
IMS-1660#B	S-IOS-00516
IMS-1620#B	S-IOS-00517
IMS-1620#A	S-IOS-00517
IMS-1620#B	S-IOS-00518
IMS-1620#A	S-IOS-00518
IMS-1620#B	S-DMS-20820
IMS-1640#B	S-IOS-00940
IMS-1640#B	S-DMS-31058
IMS-1640#B	S-DMS-31059
IMS-1640#B	S-DMS-31062
IMS-1640#B	S-DMS-31061
IMS-1660#B	S-DMS-01015
IMS-1640#B	S-DMS-00912
IMS-1640#B	S-DMS-00913
IMS-1650#B	S-DMS-01011
IMS-1660#B	S-DMS-01011
IMS-1650#B	S-DMS-01012
IMS-1660#B	S-DMS-01012
IMS-1650#B	S-DMS-01012
IMS-1660#B	S-DMS-01012
IMS-1650#B	S-DMS-01013
IMS-1660#B	S-DMS-01013
IMS-1650#B	S-DMS-01014
IMS-1660#B	S-DMS-01014
IMS-1650#B	S-DMS-01015
IMS-1660#B	S-DMS-01015
IMS-1660#B	S-DMS-11011
IMS-1640#B	S-DMS-10595
IMS-1640#B	S-DMS-10596
IMS-1650#B	S-DMS-11012
IMS-1660#B	S-DMS-11012
IMS-1650#B	S-DMS-11013
IMS-1660#B	S-DMS-11013
IMS-1650#B	S-DMS-11014
IMS-1660#B	S-DMS-11014

IMS-1650#B	S-DMS-11015
IMS-1660#B	S-DMS-11015
IMS-1650#B	S-DMS-11016
IMS-1660#B	S-DMS-11016
IMS-1650#B	S-DMS-11017
IMS-1640#B	S-DMS-31011
IMS-1640#B	S-DMS-31012
IMS-1650#B	S-DMS-31013
IMS-1660#B	S-DMS-31013
IMS-1650#B	S-DMS-31014
IMS-1660#B	S-DMS-31014
IMS-1650#B	S-DMS-31015
IMS-1660#B	S-DMS-31015
IMS-1650#B	S-DMS-31016
IMS-1660#B	S-DMS-31016
IMS-1650#B	S-DMS-31017 S-DMS-31017
IMS-1660#B	
IMS-1650#B	S-DMS-31018
IMS-1650#B	S-DMS-20865
IMS-1660#B	S-DMS-20865
IMS-1640#B	S-DMS-20866
IMS-1640#B	S-DMS-20867
IMS-1650#B	S-DMS-20868
IMS-1660#B	S-DMS-20868
IMS-1650#B	S-DMS-20869
IMS-1660#B	S-DMS-20869
IMS-1660#B	S-DMS-20870
IMS-1660#B	S-DMS-20871
IMS-1660#B	S-DMS-20872
IMS-1660#B	S-DMS-20873
IMS-1680#B	S-DMS-20795
IMS-1690#B	S-DMS-20796
IMS-1680#B	S-DMS-32000
IMS-1690#B	S-DMS-32001
IMS-1700#B	S-DMS-00605
IMS-1700#B	S-DMS-00606
IMS-1700#B	S-DMS-10385
IMS-1700#B	S-DMS-10386
IMS-1700#B	S-DMS-20355
IMS-1700#B	S-DMS-20356
IMS-1700#B	S-DMS-32010
IMS-1700#B	S-DMS-32011
IMS-1700#B	S-IOS-00520
IMS-1700#A	S-IOS-00520

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IMS-1700#B	S-IOS-00530
IMS-1700#A	S-IOS-00530
IMS-0570#B	S-DMS-00115
IMS-0570#B	S-DMS-10115

Table 5 - Links to be deleted between REQ_BY_REL and LEVEL_4

RbR ID	L4 ID
IMS-0550#B	S-DMS-00010
IMS-0550#B	S-IOS-00010
IMS-0550#A	S-IOS-00010
IMS-0550#A	S-IOS-00070
IMS-0550#B	S-IOS-00070
IMS-0550#B	S-IOS-00080
IMS-0550#A	S-IOS-00080
IMS-0320#B	S-DMS-20660
IMS-1620#B	S-IOS-00940
IMS-1620#A	S-IOS-0516
IMS-1660#A	S-IOS-0516

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